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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/435,256	11/05/1999	THYAGARAJAN BALASUBRAMANIAN	D/99729Q	4969
75	590 04/23/2003			
JOHN E BECK XEROX CORPORATION XEROX SQUARE 20A ROCHESTER, NY 14644			EXAMINER	
			RAHIMI, IRAJ A	
			ART UNIT	PAPER NUMBER
			2622	2
			DATE MAILED: 04/23/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

<i>j</i> .					
	Application No.	Applicant(s)			
Office Action Summan	09/435,256	BALASUBRAMANIAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	(Iraj) Alan Rahimi	2622			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status	1				
1) Responsive to communication(s) filed on <u>08 N</u>					
,	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) 1,2 and 5 is/are rejected.					
7) Claim(s) 3,4,6 and 7 is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on 11/8/99 is/are: a)⊠ acce	epted or b) \square objected to by the Exa	aminer.			
Applicant may not request that any objection to the					
11)☐ The proposed drawing correction filed on		ved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)☐ All b)☐ Some * c)☐ None of:					
 Certified copies of the priority documents have been received. 					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) 🔲 Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicant does not provide definitions for e_i ,e_i and p.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 2 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Itoh in view of Eames (US patent 5,666,436).

Regarding claim1, Itoh discloses a method of selecting a filter for control of a gamut mapping correction process, including: determining a filter selection metric in accordance with measured local image activity (column 4, lines 10-23. 8x8 matrix is considered local image area where filtering criteria is based on.);

changing filter parameters as a function of the determined filter selection metric (column 3, lines 65-67; column 4, lines 46-67 and column 6, lines 1-16).

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Although Itoh discloses filtering out the noise due to coding of the image data he does not specifically disclose coding of image data for gamut mapping. Eames discloses coding of image data for gamut mapping. Itoh and Eames are analogous art because they are from the same field of endeavor that is image processing. Therefore, it would have been obvious to a person skilled in the art, at the time of invention to use gamut mapping as a form of encoding image data.

Regarding claim 2, Itoh discloses a method as described in claim 1, wherein said local image activity metric varies between low activity, corresponding to flat areas within an image, and high activity, corresponding to strong edge areas with an image (column 5, lines 64-67 and column6, lines 1-16. Homogeneous regions are considered low activity areas and heterogeneous regions are considered high activity area.

Regarding claim 5, Itoh discloses a method as derived in claim 1 wherein said varied filter parameter is filter size in terms of pixels covered in a single operation thereof (column 3, lines 31-36).

Allowable Subject Matter

5. Claims 3, 4, 6 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art or the prior art of record did not disclose the limitations of these claims.



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Other prior art cited

6. The prior art made of record and not relied upon is considered pertinent to the applicant's disclosure.

Koizumi et al. (US patent 5,497,249) discloses an apparatus which performs filter processing on original image data.

Ohsawa (US patent 5,790,195) discloses an image processing apparatus that has an activity unit detecting of input image data and processing unit for space filter processing.

Lin (US patent 6,044,178) discloses a LCD projection resolution translator that segments the image into black text and white text.

Kundu (US patent 5,812,702) discloses a system for enhancement of coded images.

Furukawa et al. (US patent 6,272,260) discloses a method for processing an image filter.

Lopez et al. (US patent 5,822,467) discloses a sharpening filter for images with automatic adaptation to image type.

Namizuka et al. (US patent 5,687,006) discloses a regenerating appartus comprising emphasis unit for filtering an image.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Iraj) Alan Rahimi whose telephone number is 703-306-3473. The examiner can normally be reached on Mon.-Fri. 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L Coles can be reached on 703-305-4712. The fax phone numbers for the

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organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3800.

Alan Rahimi April 15, 2003

SUPERVISORY PATENT EXAMINER

BUNNOLOGY CENTER 2600